

Initiating the Program Evaluation Process: Define Your Program Using Mission, Goals, Objectives and a Program Logic Model

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Materials for Download

- Sources for materials and additional training information:
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 - http://www.dcoe.mil/About_DCoE/Program_Evaluation.aspx
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- The Duke Medicine website online CE evaluation and post-test will be open through Tuesday, Jan. 27, 2015, until 11:59 p.m. (EST)



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- NASW: National Association of Social Workers (NASW), North Carolina Chapter: Southern Regional AHEC will
 award contact hours commensurate to the length of the program to participants who attend 100% of the program.





Presenter

CAPT Armen Thoumaian, Ph.D.
U.S. Public Health Service
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CAPT Armen Thoumaian is a scientist director in the Commissioned Corps of the U.S. Public Health Service (USPHS) with more than 30 years experience in health and mental health program design and evaluation.

In January 2012, CAPT Thoumaian joined the staff at the Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury (DCoE) to help design and implement program evaluation and improvement efforts in the Defense Department.

He holds a B.A. in Psychology and Sociology, a M.A. in General Experimental Psychology, and a Ph.D. in Social Welfare and Social Work, and has completed a National Institute of Mental Health fellowship in Community Mental Health.



USPHS Capt. Armen Thoumaian, Ph.D.



Presenters

Aaron Sawyer, Ph.D. Research Scientist, Contract Support for DCoE

Dr. Aaron Sawyer is a clinical psychologist with extensive expertise in intervention outcome research and program evaluation. He has delivered child, family and adult interventions for more than a decade, including specialization in trauma and experience working with military families. Dr. Sawyer holds a M.S. in Experimental Psychology and a Ph.D. in Clinical Psychology. He completed post-doctoral training at The Kennedy Krieger Institute/Johns Hopkins University and is a licensed psychologist.



Dr. Aaron Sawyer

Richard Best, Ph.D. Research Scientist, Contract Support for DCoE

Dr. Richard Best is an industrial and organizational (I/O) psychologist with 14 years of experience conducting health services research in both the Veterans Health Administration and the Defense Department's Military Health System. He has extensive experience in research design, qualitative and quantitative data collection and analysis, and collaborating with clinical experts to translate research results into actionable recommendations. Dr. Best holds a M.S. and Ph.D. in I/O Psychology and is certified in Prosci's Change Management Process.



Dr. Richard Best



Moderator

Carmina Aguirre, M.A. Research Scientist, Contract Support for DCoE

Ms. Carmina Aguirre has over 14 years of experience within the Defense Department. Her background includes Executive Leadership, Psychological Health, Sexual Assault Prevention and Response, and Public Affairs. In addition to supporting DCoE, she serves as Chief of Public Affairs in the Florida Air National Guard. Ms. Aguirre holds a B.A. in Psychology and a M.A. in Human Services with a specialization in Executive Leadership.



Ms. Carmina Aguirre



Overview and Objectives

- This presentation will provide an overview of the development and use of mission, goals, SMART objectives (specific, measurable, achievable, relevant, time-bound) and logic models in program planning and evaluation
- At the conclusion of this webinar, participants will be able to:
 - Develop a mission statement, goals and SMART objectives for a program
 - Explain the major components of a logic model
 - Apply provided guidance to design and construct a logic model
 - Select strategies to address common challenges



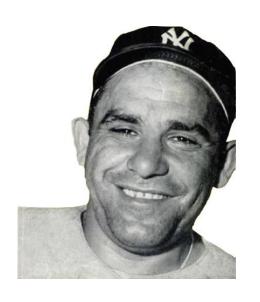
Agenda

- Defining Program Intent: Mission, Goals and SMART Objectives
- Introduction to Logic Models
- Building Logic Models
- Common Challenges
- Conclusion
- References and Resources
- Feedback and Question-and-Answer Session

Defining Program Intent: Mission, Goals and SMART Objectives



Introduction

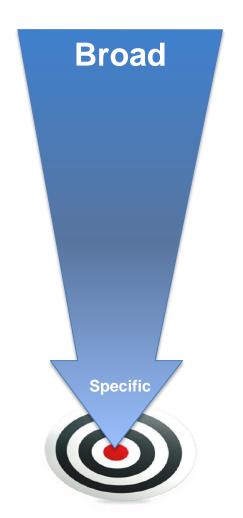


"If you don't know where you're going, how are you gonna know when you get there?"

--Yogi Berra

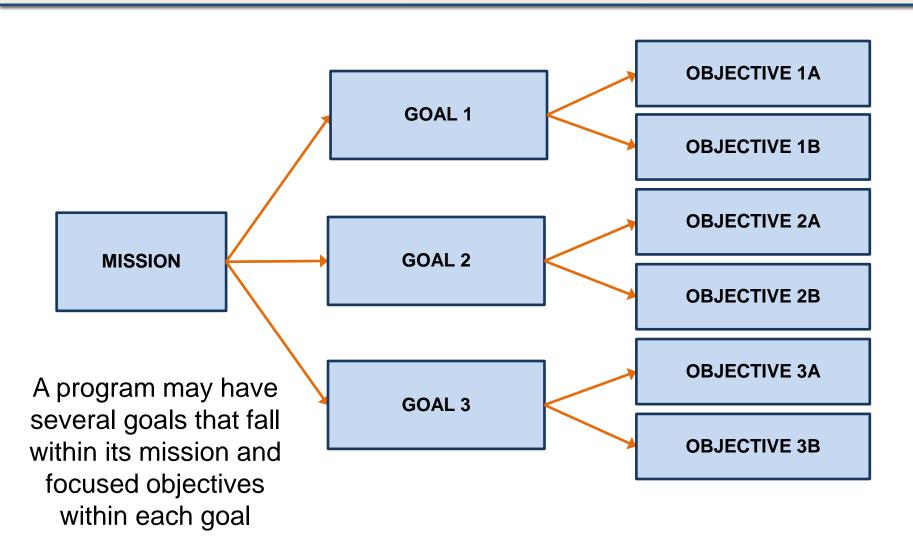
Program Evaluation Compares Results to Stated Mission, Goals and Objectives

- Mission: Purpose for the program's existence; goals and objectives should support mission
- Goals: Statements that outline what the program intends to accomplish
- SMART Objectives: Descriptions of goals in terms of specific, measurable, achievable, relevant, time-bound units





Hierarchical Organization





Mission Statement Examples

Mission should align with organizational priorities

Promote behavioral health and provide quality, compassionate, patient-centered care while developing healthcare professionals and optimizing readiness

-Behavioral Medicine, Brooke Army Medical Center

To encourage Sailors, commands, families and civilians to empower themselves by taking personal responsibility for their health, wellness and growth—the next step in building resilience

-OPNAV N17 21st Century Sailor Communications Campaign, NavyTHRIVE



Goal Examples

Goals should be actionable statements about what a program plans to accomplish

Program A will provide an effective and safe treatment program that meets the unique needs of active duty service members with substance use disorders

Program B will screen all post-deployment Service members for psychological health concerns and ensure that referrals are made for appropriate care and service coordination

Objectives Must Be SMART

Goals will often break down into multiple objectives targeting specific elements within the logic model

Objectives must be

Specific

Measurable

Achievable

Relevant

Time-bound



Questions to Guide Development of SMART Objectives

Specific	Measurable	Achievable	Relevant	Time-Bound
Who will execute or deliver the program and how?	How much change is expected and in what direction?	How will the objective be accomplished?	Will the objective help the program meet its mission and goals?	When will the objective be achieved?
Who is the target population?	What kind of data will be used to determine whether changes have occurred?	Are necessary inputs available to accomplish the objective?	Does the objective help to address the situation or need that drives the program?	If the objective will be achieved in stages, what is the timeframe for each stage?
What are the outputs or products?	How will data be collected and from whom or what?	Is the objective too great, too small or appropriate?	Does the objective have support from staff, participants, and other stakeholders?	Is the time-frame for accomplishing the objective too short, too long or realistic?
What are the intended benefits or outcomes?	Are there other or more accurate sources of data?	Can the objective be accomplished given external factors?	Does the objective align with organizational priorities?	What internal and/or external deadlines are relevant to achieving the objective?

SMART Objective Examples

- **Program X** will provide up to 12 sessions of therapy to each of 500 active-duty service members per year who have been diagnosed with posttraumatic stress disorder or referred by a medical or behavioral health professional for trauma-related concerns
- **Program Y** will deliver two half-day, live web-based trainings per week to unit commanders, who will demonstrate increased awareness of traumatic brain injury symptoms from pre- to post-training assessment

Introduction to Logic Models



Logic Model Definition

- In simple terms, a logic model is an "actionoriented tool for program planning and evaluation"
- Logic models connect program outcomes with its practices or products and also with the theoretical assumptions that underlie the program

Source: W.K. Kellogg Foundation (2006)

Logic Model Development Guide



Benefits of Building a Logic Model

Logic models are useful to programs because they:

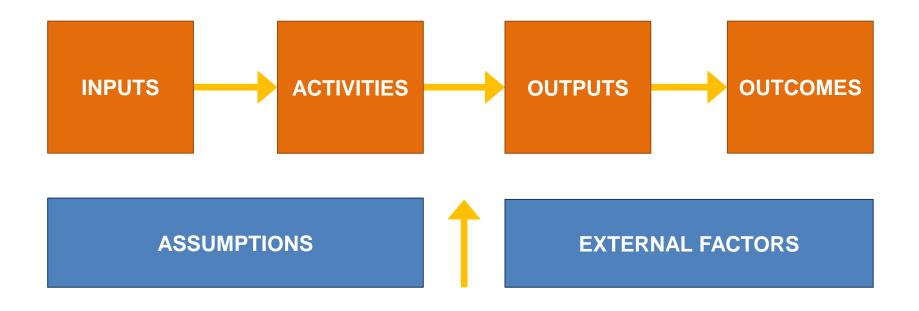
- Provide a roadmap for progress and results
- Specify how activities should be sequenced
- Identify gaps and redundancies
- Guide program evaluation and improvement (PEI) efforts



Using Logic Models in PEI Efforts

- Program evaluators assess the relationship between stated objectives, inputs, activities, outputs and outcomes to determine whether a program is effective
- Improvement efforts target specific components of a logic model to improve quality, outcomes and efficiency

Core Logic Model Components





Definitions of Logic Model Elements

Component	Definition	Example Elements
Inputs	operate; resources used to	- Funding, facilities, equipment and supplies (budgeted, in-kind donations)
	implement a program's activities and produce its	 Staff (administrative, professional, military)
	outputs	- Research and knowledge base
	- Relationships, time and energy	
		- Defense Department
Activities	inputs in support of its mission; includes activities performed by staff and program	 Clinical (assessment, treatment, medication management, rehabilitation)
		 Outreach (referrals, networking, advertising)
administrators	 Education (development/delivery of workshops, trainings, materials) 	
		 Ancillary (surveillance, data collection, research, evaluation, reporting)



Definitions of Logic Model Elements (continued)

Component	Definition	Example Elements
Outputs	Products of or participation in the program that are direct results of activities	 Number and characteristics of participants Units of service provided and products created Reports and documentation Referrals and partnerships
Outcomes	Changes that result in program participants or a broader target population as a result of their participation	Intended or unintended changes over short-, medium- or long-term in: - Awareness, knowledge, skills - Symptoms, behavior, rates - Functioning in work and relationships



Definitions of Logic Model Elements (continued)

Component	Definition	Example Elements
Assumptions	Underlying ideas that influence how a program understands its purpose and why its inputs, activities and outputs are organized in a certain way to produce intended outcomes	 PTSD is best addressed through exposure therapy TBIs can be prevented by wearing helmets Resources will remain available to the program for the foreseeable future Evidence-based procedures result in better outcomes
External Factors	Cultural, social, political, economic and technological features of the environment that influence how a program operates and the target population it serves	 Stigma in military against seeking/receiving care Funding priorities of Congress and DoD Hierarchical command structure Support from family and community



Word Choices for Program Outcomes

Timeframe	Type of Outcome
Short-term	Awareness of campaign, understanding of message, knowledge gained, opinion or attitude change, intentions or motivation to change
Medium-term	Increase in positive behaviors, use of coping skills, decreased symptoms, improved memory functioning, change in addiction or disorder status
Long-term	Increase in health practices, decrease in condition prevalence, improved job functioning, improved unit readiness, change in group norms, improved family relationship quality



An Output ≠ An Outcome

Outputs include measurable products of the program, whereas outcomes are the changes that occur among participants as a result of participation

Outputs

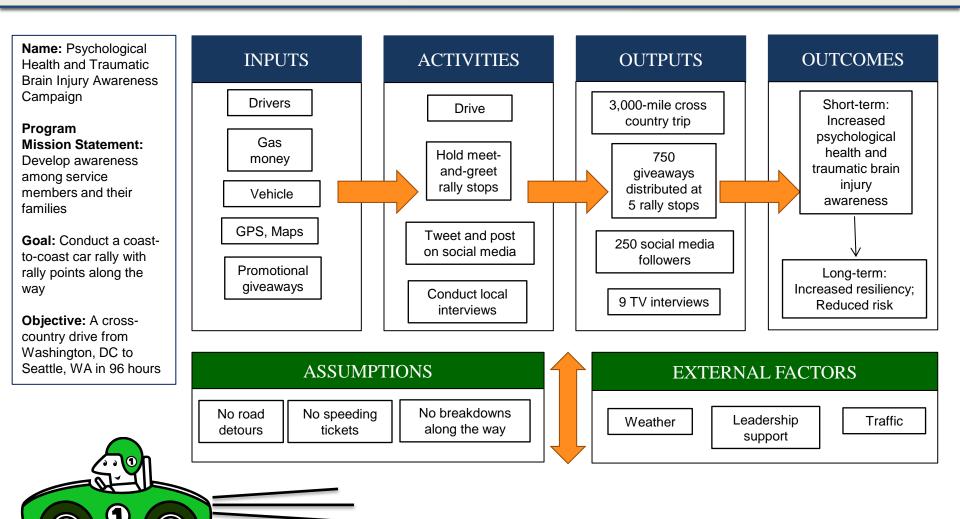
#Participants
#Trainings delivered
#Sessions provided

Outcomes

- ↓ Completed suicides
- ↑ Readiness
- ↑ Awareness



Basic Logic Model Example: Road Rally





Logic Model Template

INPUTS	ACTIVITIES	OUTPUTS		OUTCOMES	
[Insert text]	[Insert text]	[Insert text]	Short	Medium	Long
			[Insert text]	[Insert text]	[Insert text]
	[Insert text]				
	[Insert text]				

ASSUMPTIONS	1	EXTERNAL FACTORS
[Insert text]		[Insert text]
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Building a Logic Model



Locating Logic Model Elements in Existing Documents

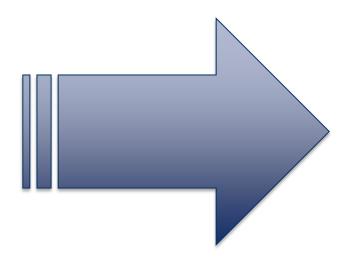
- Inputs, activities, outputs and outcomes may be documented in several locations, based on program needs and the type of information recorded and program requirements
- Program evaluators also have access to prior evaluation and assessment data
- Locations may include a policy and procedures manual, training manual, program handbook, reports to stakeholders, program budgets, etc.



Construct a Logic Model: Forward Mapping

Identify inputs, activities, outputs and outcomes by:

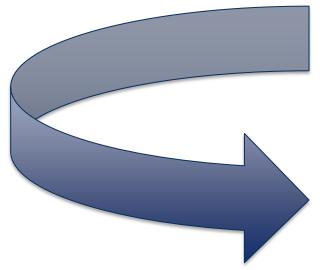
 Forward mapping—starting with program inputs and activities, ask "so what?" in order to generate the outputs and outcomes that are expected to result



Construct a Logic Model: Reverse Mapping

Identify inputs, activities, outputs and outcomes by:

 Reverse mapping—starting with program results, ask "how?" in order to generate the activities that produce them



Non-Clinical Program Example

Mission: At Program Echo, we seek to ensure that service members who are wounded, ill or injured successfully reintegrate into civilian life or return to duty in the military. By performing our mission effectively, we hope to enhance force readiness and improve the quality and efficiency of services across the Defense Department



DoD photo by Pat Cubal



Goal 1: Program Echo helps service members transition to civilian life or return to duty with increased functioning and a sustainable, individualized system of support and care to meet ongoing needs

- Objective 1A: To assess all service members referred to the program and work with the service member and his or her family or caregiver to determine their needs and develop a plan for reintegration, followed by guidance sessions and service referrals
- Objective 1B: To increase use of services and supports for participating service members and enhanced functioning in targeted areas measured on an ongoing basis
- Objective 1C: To ensure continuous access to medical and nonmedical services from point of illness/injury and for as long as needed to secure resilience and stability

Is this a SMART objective?

Measurable with respect to how many will be served (i.e., all referred)

Specific about who will participate

Objective 1A: To assess alk service members referred to the program and work with the service member and his or her family or caregiver to determine their needs and develop a plan for reintegration, followed by guidance sessions and service referrals.

Time-bound in that objective specifies the order of activities (i.e., assess→determine needs →provide guidance/referrals)

Relevant in that these outputs are related to the program's mission

Achievable in that objective can be accomplished with available resources detailed in program logic model



Goal 2: Program Echo provides media materials and outreach in order to enhance service members' knowledge and awareness of the support and services available to assist them with reintegration

- Objective 2A: To produce and deliver media materials to targeted locations in order to increase awareness of services and supports as indicated by reports from other programs regarding source of referral or knowledge
- Objective 2B: To increase service use and improve quality by promoting effective support and care services to those who need them

Is this a SMART objective?

Time-bound in that objective specifies a clear timeorder in which activities and outputs precede the outcome of interest (i.e., awareness)

Specific about what output will be produced

Objective 2A: To produce and deliver media materials to targeted locations in order to increase awareness of services and supports as indicated by reports from other programs regarding source of referral or knowledge

Measurable with respect to the metric used to measure awareness (i.e., an outcome)

Relevant in that these outputs are related to specific outcomes that serve the program's mission

Achievable in that objective can be accomplished with available resources detailed in program logic model



INPUTS

Target Population Seriously wounded, ill or injured service members and their families

Staff

21 including nonmedical care mangers, recovery care managers and military (Division Chief)

Stakeholders
Service Branch
Leadership, Secretary
of Defense, Congress

Funding Past 5 Fiscal Years

2013 - \$5.5M

2012 - \$1.5M

2011 - \$1.2M

2010 - \$1.2M

2009 - \$800K

Care Coordination-

ACTIVITIES

- Administer
 assessment
 checklist to
 determine needs
 within 7-phase
 continuum of care
- Complete comprehensive recovery plans and quarterly progress update
- Provide consultations and educational material

Outreach -

- Develop content for articles, news bulletins, Facebook and website
- Conduct outreach activities

Guidance Sessions Completed

OUTPUTS

- Benefits/ entitlements
- Financial
- Employment
- Integrated
 Disability
 Evaluation System

Referrals of participant, family member, caregiver to:

- Local resources
- Other DoD programs

Information delivered

- Access service outreach materials (e.g., downloads, hits)
- Report of program as source of information by select other programs

OUTCOMES

Short	Medium	Long
Improved attitudes and confidence	Improved quality of life and stability	Increased force readiness
Increased use of medical and non-medical services and supports throughout recovery and rehabilitation	Reduced delays and gaps in treatment (medical) and support services (non-medical)	Improved service continuity
Increased knowledge of benefits, entitlements, resources and transition services	Increased resilience and retention Successful reintegration into military or civilian life	Improved service quality and reduced costs



ASSUMPTIONS

Care coordination is required for target population to effectively access available services and supports

EXTERNAL FACTORS

Program is highly political – care for wounded service members is a priority issue for President, Congress and senior leaders in the Defense Department and Department of Veterans Affairs

There is widespread community support for assisting wounded, ill and injured service members

An additional example for a clinical program is provided in DCoE's *Program Evaluation Guide* (2nd Edition), Appendix A



Common Challenges



Common Challenges FAQ

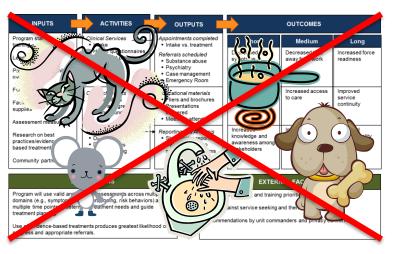
- How detailed does my program's logic model need to be?
- How do I form a logic model that connects the headquarters (HQ) level of a program to the site level?
- How do I deal with absent or insufficient information needed to build a logic model?

How Detailed Does My Program's Logic Model Need to Be?

- A logic model should contain enough information to be useful but not so much it cannot be understood
- Do include information about: major resources (e.g., staffing, funding), key activities and outputs, and measurable outcomes

 Consider excluding: administrative tasks, itemized lists of resources, infrequent activities and outputs, trainings

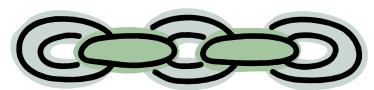
not specific to program





How Do I Form a Logic Model That Connects the HQ Level of a Program to the Site Level?

- The key issue in developing a logic model is being able to create a logical chain of connections from inputs to outcomes at the site level (i.e., the place where services are delivered)
- A single logic model can specify whether activities occur at either or both the headquarters and/or the site level (e.g., by designating HQ or S)
- Alternatively, a program may have separate logic models for each level if needed, although it is preferable to use a single model





How Do I Deal With Absent or Insufficient Information Needed to Build a Logic Model?

- Programs will rarely have all of the information readily available that is needed to develop a fully functional initial logic model
 - Absent or insufficient information is often informative in terms of identifying areas for growth and improvement when identified as part of a program evaluation and improvement effort
 - In addition, program personnel may compare stated mission, goals and objectives with the logic model to determine needs for further development and measurement

Conclusion



Key Takeaways

- Mission statements, goals and objectives provide increasingly specific definitions about the purpose of a program
- Objectives form the standard against which evaluation results are compared and should be SMART (specific, measurable, achievable, relevant, time-bound)
- ♣ Logic models illustrate a program's structured approach achieving its mission



Courtesy photo by Stewart Leiwakabessy



References and Resources



References and Resources

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References and Resources (continued)

DCoE Program Evaluation Trainings and Program Evaluation Guide:

http://www.dcoe.mil/About DCoE/Program Evaluation/Resources and Training.aspx

DCoE Home Page: http://www.dcoe.mil/

Deployment Health Clinical Center: http://www.pdhealth.mil/

Defense and Veterans Brain Injury Center: http://dvbic.dcoe.mil/

National Center for Telehealth and Technology: http://www.t2health.dcoe.mil/

Agency for Healthcare Research and Quality: http://www.qualitymeasures.ahrq.gov

American Evaluation Association: http://www.eval.org/

Centers for Disease Control and Prevention, Program Performance and Evaluation Office: http://www.cdc.gov/program/

Minnesota Department of Health, Quality Improvement Toolbox: http://www.health.state.mn.us/divs/opi/qi/toolbox/

University of Kansas, Community Toolbox: http://ctb.ku.edu/en

